

ABSTRACT

A method for triggering solenoid valves assigned to gas-exchange valves in an electrohydraulic valve activation of an internal combustion engine having a plurality of combustion chambers. The solenoid valves assigned to the gas-exchange valves may be activated independently of each other. To this end, crankshaft-synchronous trigger signal for solenoid valves of the internal combustion engine are ascertained in a control unit and transmitted to an output stage. The output stage controls the solenoid valves on the basis of the transmitted trigger signals. Each combustion chamber of the internal combustion engine has at least one intake valve and at least one discharge valve as gas-exchange valve. All solenoid valves of all gas-exchange valves of a combustion chamber form a solenoid-valve set. One activation profile in each case is specified for all solenoid valves of a solenoid valve set. In the control unit, a crankshaft-synchronous activation signal is ascertained for each combustion chamber and supplied to the output stage. The output stage triggers the solenoid valves of the solenoid-valve set on the basis of the activation signal of the cylinders according to the activation profile stored for the individual solenoid valve.